

**ABSTRACT OF THE DISCLOSURE**

A vehicle detector system having a number of individual vehicle detectors each capable of sampling a plurality of vehicle loops in mutual synchronization. One detector operates as a master detector  
5 for synchronization purposes; the other detectors are operated as slave detectors. The system can be configured for series or parallel synchronous operation. The system is particularly advantageous in installations requiring a large number of closely spaced vehicle loops each operated by a detector set to high sensitivity.